## Fundamentals of Engineering Exam Sample Math Questions

Directions: Select the best answer.

- 1. The partial derivative  $\frac{\partial y}{\partial x}$  of  $y = x^2z + 3z^2x + 6(x+z)$  is:
  - a.  $2xz + 3z^2 + 6$
  - b.  $x^2z + 6zx + 6z$
  - c. 2x + 9
  - d. 2x + 6z + 6
- 2. If the functional form of a curve is known, differentiation can be used to determine all of the following EXCEPT the
  - a. concavity of the curve.
  - b. location of the inflection points on the curve.
  - number of inflection points on the curve.
  - d. area under the curve between certain bounds.
- Which of the following choices is the general solution to this differential equation:

$$\frac{dy}{dt} + 5y = 0$$
;  $y(0) = 1$ ?

- a.  $e^{5t}$  b.  $e^{-5t}$  c.  $e^{\sqrt{-5t}}$  d.  $5e^{-5t}$
- 4. If D is the differential operator, then the general solution to  $(D+2)^2 y = 0$ 
  - a. C.e-4.
  - b. C,e-24
  - c.  $e^{-4z}(C_1 + C_2x)$
  - d.  $e^{-2x}(C_1 + C_2x)$
- A particle traveled in a straight line in such a way that its distance S from a given point on that line after time t was  $S = 20t^2 - t^4$ . The rate of change of acceleration at time t=2tion?

- b. 144 с. 192

- d. 20%
- 6. Which of the following is a unit vector perpendicular to the plane determined by the vectors A=2i+4j and B=i+j-k?
  - $a_{i} = -2i + i k$
  - b.  $\frac{1}{\sqrt{5}}(i+2j)$
  - c.  $\frac{1}{\sqrt{6}} (-2i + j k)$
  - d.  $\frac{1}{\sqrt{6}}(-2\mathbf{i} \mathbf{j} \mathbf{k})$

# **Math Solve Question Paper Of Fe Engineering**

**Lei Huang** 

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